### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



## 

(43) International Publication Date 23 December 2004 (23.12.2004)

**PCT** 

# (10) International Publication Number WO 2004/111371 A1

(51) International Patent Classification<sup>7</sup>: 47/00, E05F 15/16, B60J 5/04

E05B 65/20,

(21) International Application Number:

PCT/EP2004/051136

(22) International Filing Date: 16 June 2004 (16.06.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: TO2003A000456

17 June 2003 (17.06.2003) IT

- (71) Applicant (for all designated States except US): INTIER AUTOMOTIVE CLOSURES S.P.A. [IT/IT]; Corso Allamano, 70/5, I-10090 Cascine Vica Rivoli (IT).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): OTTINO, Franco, Giovanni [IT/IT]; Via Ippolito Nievo, 8, I-56017 San Giuliano Terme (IT).
- (74) Agents: JORIO, Paolo et al.; Studio Torta S.r.l., Via Viotti, 9, I-10121 Torino (IT).

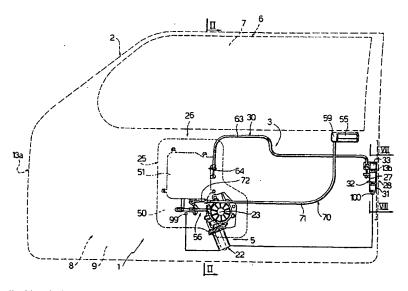
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

### (54) Title: A FUNCTIONAL UNIT FOR A DOOR OF A MOTOR VEHICLE



(57) Abstract: Described herein is a functional unit (1) for a door (2) of a motor vehicle, provided with a lock (3) and a window-regulator device (5); the lock (3) comprises a closing mechanism (20), designed to couple in a releasable way with a lock striker (4) for bringing about closing of the door (2), and an actuating mechanism (21), for controlling release of the closing mechanism (20) by the lock striker (4) and bringing about opening of the door (2); the window-regulator device (5) comprises an electrically operated actuator (22) for raising or lowering a window (7) of the door (2). The unit (1) is further provided with coupling means (56), which can be selectively activated for coupling together the actuator (22) and the actuating mechanism (21) so as to enable opening of the door (2) via the actuator (22) itself.